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UGEARS Flexi-Cubus

UGEARS Flexi-Cubus Instruction Manual

Model: Flexi-Cubus

1. Product Overview

The UGEARS Flexi-Cubus is a unique mechanical 3D wooden puzzle designed as a geometrical toy. It consists of eight joint-connected spheres, each featuring a flexible connection that allows them to move and roll over one another. This innovative design enables the Flexi-Cubus to transform into various geometrical shapes.

Beyond its puzzle aspect, the Flexi-Cubus serves as an anti-stress toy, providing a tactile and engaging experience that can help reduce tension and anxiety through its dynamic manipulation.



Image 1.1: The UGEARS Flexi-Cubus in its primary cube configuration, showcasing its intricate wooden design and jointed spheres.

2. Safety Information

Please read and understand all safety instructions before beginning assembly or use of the Flexi-Cubus.

- **Age Recommendation:** This product is recommended for individuals **15 years and up**. It contains small parts that may pose a choking hazard for younger children.
- **Material Safety:** The Flexi-Cubus is made of high-quality plywood. Ensure hands are clean and dry during assembly to prevent damage to the wood.
- **Handling:** Handle parts with care during assembly to avoid breakage. Do not apply excessive force.
- **Storage:** Store the assembled model and any unneeded parts in a dry environment away from direct sunlight or extreme temperatures to prevent warping or damage to the wood.

3. Package Contents

Your UGEARS Flexi-Cubus package includes:

- **144 Precision-Cut Wooden Parts:** These parts are laser-cut from high-quality plywood, ready for assembly.
- **Instruction Manual:** This document provides detailed guidance for assembly and use.

No additional tools or glue are required for assembly, as the parts are designed to interlock precisely.

4. Assembly Instructions

The Flexi-Cubus is designed for easy assembly, typically taking **1-3 hours**. Follow these general steps for a smooth building experience:

1. **Preparation:** Carefully unpack all components. Identify the wooden sheets containing the parts.

2. **Part Removal:** Gently press out the individual parts from the wooden sheets. If a part is difficult to remove, use a small, blunt object (like a toothpick) to push it out from the back. Avoid tearing or forcing parts.
3. **Sanding (Optional):** Some parts may have small burrs from the laser cutting process. If necessary, gently sand these edges with fine-grit sandpaper (not included) for a smoother fit.
4. **Assembly:** Follow the visual instructions provided in the physical manual (not this digital one) to connect the parts. Pay close attention to the numbering and orientation of each piece. The Flexi-Cubus uses a unique interlocking mechanism that requires no glue.
5. **Testing Connections:** As you assemble sections, gently test the movement of the joints to ensure they are not too tight or too loose.

The assembly process is intuitive and designed to be a rewarding experience. Take your time and enjoy the process of bringing your Flexi-Cubus to life.



Image 4.1: Another view of the Flexi-Cubus, highlighting the precision of the wooden components and their seamless integration.

5. Operating the Flexi-Cubus

Once assembled, the Flexi-Cubus is ready for interaction. Its primary function is to be manipulated into various forms, offering both a playful and stress-relieving experience.

- **Flexible Movement:** Gently push, pull, and twist the individual spherical segments. The internal flexible connections allow the spheres to roll over each other, enabling a wide range of transformations.
- **Shape Exploration:** Experiment with different manipulations to discover various geometrical shapes and configurations. The cube can be stretched, flattened, and twisted into abstract forms.
- **Anti-Stress Use:** Engage with the Flexi-Cubus as a tactile fidget toy. The smooth movement and satisfying clicks of the wooden parts can help reduce stress and improve focus.



Image 5.1: The Flexi-Cubus demonstrating its flexibility, stretched into an elongated shape, showcasing the interconnected spheres.



Image 5.2: The Flexi-Cubus manipulated into a curved, semi-circular arrangement, illustrating its dynamic range of motion.



Image 5.3: The Flexi-Cubus transformed into a serpentine, flowing shape, highlighting its continuous, flexible connections.



Image 5.4: The Flexi-Cubus in a more compact, folded configuration, demonstrating its ability to collapse and expand.

6. Maintenance

Proper care will ensure the longevity and smooth operation of your UGEARS Flexi-Cubus.

- **Cleaning:** Use a soft, dry cloth to gently wipe away dust. Do not use water, cleaning solutions, or abrasive materials, as these can damage the wood.
- **Lubrication:** UGEARS models typically do not require lubrication. If any joints feel stiff over time, a very small amount of paraffin wax (e.g., from a candle) can be gently rubbed onto the moving wooden surfaces. Avoid using oil-based lubricants.
- **Storage:** Store the Flexi-Cubus in a stable environment, away from direct sunlight, high humidity, or extreme temperature fluctuations, which can cause the wood to warp or crack.

7. Troubleshooting

While the Flexi-Cubus is designed for durability, here are some common issues and their solutions:

- **Parts Not Fitting:** Ensure you are using the correct parts as indicated in the assembly instructions. Check for any small burrs on the edges of the parts that might prevent a smooth fit; these can be gently removed with fine-grit sandpaper.
- **Stiff Movement:** If the assembled Flexi-Cubus feels stiff, gently manipulate the joints to loosen them. Ensure no parts are misaligned or pressing against each other incorrectly. A small amount of paraffin wax can be applied to the contact points if needed.
- **Broken Part:** If a part breaks during assembly or use, contact UGEARS customer support for assistance. Avoid using adhesives unless specifically instructed, as this can hinder the model's intended movement.

8. Specifications

Attribute	Detail
Model Name	Flexi-Cubus
Brand	UGEARS
Material	High-Quality Plywood
Number of Parts	144
Assembled Size	4.5" x 2.4" x 1.1" (11.4 cm x 6.1 cm x 2.8 cm)
Package Dimensions	9.33 x 7.09 x 0.16 inches (23.7 x 18.0 x 0.4 cm)
Item Weight	3.06 ounces (86.7 grams)
Estimated Assembly Time	1-3 Hours
Difficulty Level	Easy
Recommended Age	15 years and up
Glue/Tools Required	No

9. Warranty and Support

For specific warranty information, product support, or to inquire about replacement parts, please refer to the official UGEARS website or contact their customer service directly.

You can find more information and contact details by visiting the official UGEARS store on Amazon:UGEARS Store.

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